

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/641,540
 DATE: 09/05/2000
 TIME: 11:31:02

Input Set : A:\Pto.amc
 Output Set : N:\CRF3\09052000\1641540.raw

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1 <110> APPLICANT: Misra, Santosh
3 <120> TITLE OF INVENTION: PLANT-GENE PROMOTER AND METHODS OF USING THE SAME
5 <130> FILE REFERENCE: 54358
C--> 7 <140> CURRENT APPLICATION NUMBER: US/09/641,540
C--> 8 <141> CURRENT FILING DATE: 2000-08-18
10 <160> NUMBER OF SEQ ID NOS: 28
12 <170> SOFTWARE: PatentIn Ver. 2.1
14 <210> SEQ ID NO: 1
15 <211> LENGTH: 6
16 <212> TYPE: DNA
17 <213> ORGANISM: Artificial Sequence
19 <220> FEATURE:
20 <221> NAME/KEY: variation
21 <222> LOCATION: (3)..(4)
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24 <220> FEATURE:
25 <223> OTHER INFORMATION: Description of Artificial Sequence: PROMOTER
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69 acgt 4

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82 <220> FEATURE:
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93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
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Input Set : A:\Pto.amc
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142 <210> SEQ ID NO: 10
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144 <212> TYPE: DNA
145 <213> ORGANISM: Pseudotsuga menziesii
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149 cttccaaaaa aaatgaaggg gataagggat ggtttgagtg gcaagggatt tcaacattgg 120
150 aagatccttt gaggttttta ttggaagat gatttgaagt ttcoactaaa taattgatat 180
151 gatgataatg acaagagataa tagttactac attgaacca attttagttt aataattctt 240
152 taaaaaaata taagccocaa tctaattttg aatttgaaa gatatatgat tattcaacct 300
153 aaagagataa gataagatcc aactccttcg agtgcctttg gtgacataaa tatagggttt 360
154 atccatttgc gacgatgata tacaatggac gatccagaaa gtctccataa aaatggagat 420
155 ttoacyaaag aatccattg tacgctcag gatttcgaca ttgaagatc cattaatgag 480
156 atgcttgcca ggggctcagc actgaatgcg cccgtcccca cttcgaagag attccaccgg 540
157 ccgtcttgcs cctttcaltg tgccttgga ttcacatggc gggctctgag acaataacct 600
158 cagctctgcs catcataat gcccacggaa ggctgctctt cttctcaaca atccaaagca 660
159 aagcaaatgt tattctgtgt attgcaattt ccaacgttga aagatccatt attgagatgc 720
160 cctgtcccac ttcgatgaga ttccaccacg tgccttgccg ctttcattgt tgtttgatt 780
161 ctatgtcgcg gtctgtgggc cataccttca gcttcggcca cttataaagt ccacggaagg 840
162 ctgctcttct tctcaacaat caaagcaaaa tcagagaaga ttctgtgtat tgcggtttcc 900
163 cgagcttgtt atcagtttgt tgttgttgtt aacgatctgc aaacatgtct ttgacggcca 960
164 aagactgtgg ctgctccgac ccaacccaat gcgagtaagt cctctcttta ttcaagttt 1020
165 cctcctcacc tcaattcatt atcacgatcc tgaataattt ttcagttttt aatgcctgat 1080
166 atcagttttt gtgtgtgtta ctgctatata taatggcagc aagaagggca actcctgggt 1140
167 agtggagatg gttgaacca gctacgacta caacatgaac atgaggtgag ttttggcat 1200
168 tatttttttt aaagattgaa acatgcaatg aatcaatctt ggtttccaat ttggtctg 1260
169 cagctctgcs ttcgatctag agatgaaac tgtgtctgtg gagaacggtt gcaaatccgg 1320
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172 gatgtcatgt ctggtgttgt tattctaccc gtgtcaacty tgaatggcg gccttctct 1500
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178 tactcaacct aaagtatta tgacatgtat actaatgta aagcactatg tcaacagtat 1860
179 ctagttagtt tactatttta ccatcaaaag ttgagcttgg ttggcttggt atcgaggcaa 1920
180 agcaagaaga gggcagctat actttatc attgaataa ttattctgt gtatcgacca 1980
181 tatttgaat attaatcat ggattgaac atatgtata cttttgaat aatgcataca 2040
182 atcctgtgag cattaactcc cttacattta gtatgatgc aaatcaaaaa ttatagtatg 2100
183 attgttaact aaaaattata ttctatcaat gcgatgagca caagcgctct tcaacacctg 2160
184 aagaagaact ctgcgatgcaa cacatgcctt cttcacacct accaagaaac ttatagttgt 2220
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190 <211> LENGTH: 207
191 <212> TYPE: DNA
192 <213> ORGANISM: Pseudotsuga menziesii
194 <400> SEQUENCE: 11

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195 atgtcttctg acggaaga ctgtggctgt gccgacccaa cccaatgcga caagaaggcg 60
196 aactccttgg gagtggagat ggttgaacc agctacgact acaacatgaa catgagcttc 120
197 ggcttgcact acgagatgga aactgtggct gctgagaacg gctgcaaatc cggagcaagc 180
198 tccaagtact ccaacgcgtg caactga
201 <210> SEQ ID NO: 12
202 <211> LENGTH: 968
203 <212> TYPE: DNA
204 <213> ORGANISM: Pseudotsuga menziesii
206 <220> FEATURE:
207 <221> NAME/KEY: promoter
208 <222> LOCATION: (1)..(956)
210 <400> SEQUENCE: 12
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212 atgctgaggg atctcacgat gttattgatg tcatgtctgg tgttcttatt ctaccctgtg 120
213 cactgttgta atgcgggccc tctcttltta ttaactatga tatgatattt tagagtaatt 180
214 tgtgttatat gattatgctg ttctctatct tattaactat gttattagtc cctgtcttga 240
215 ggaatttgga ggaactctat gaaaggctt gcaatcgttt cattagtctc gcaagcaaat 300
216 caaagatata tatttttatt agtctctcac gcaaatataa gatatttttt ttttgaatg 360
217 tagggactgt atgaaaggcg ttgtagtgtt ttcattagtc ctgtacacaa accaaagata 420
218 tatatttcac atgtatccta agtctttact caacttaag ttattatgac atgtatacta 480
219 agttaaagc actatgcac acgtatctag ttagttttacc tatttaccat caaaagttag 540
220 gtctgttggc cctggtatcg aggcgaagcg aagaaggcg agctatactt tcatatcatt 600
221 gaatatataa ttcatgttat cgaacatatt tgaatatata attcatggta ttgaacatat 660
222 gttatacttt ttgaataatg ctacaatccc tctgtagcatt acttccctta catttagtat 720
223 gattgcaaat caaaaattat agtatgattg taactaaaaa attatattct atcaatgcac 780
224 gtatgcacaa cgcgcttccac aactgccaaag aaactctcgc atgcaacaca tgccttcttc 840
225 acaactacaa agaactctct aggtgttaat ttgtccaagc tagttctacg tgaagtatta 900
226 cacaagctga acaaatgcag ttgtcatgcc ttatgttaac aactgcctag aactcttact 968
227 aggaattc
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231 <211> LENGTH: 68
232 <212> TYPE: PRT
233 <213> ORGANISM: Pseudotsuga menziesii
235 <400> SEQUENCE: 13
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237 1 5 10 15
239 Asp Lys Lys Gly Asn Ser Leu Gly Val Glu Met Val Glu Thr Ser Tyr
240 20 25 30
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243 35 40 45
245 Val Ala Ala Glu Asn Gly Cys Lys Ser Gly Ala Ser Ser Lys Tyr Ser
246 50 55 60
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249 65
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253 <211> LENGTH: 9
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257 <220> FEATURE:

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274 <400> SEQUENCE: 15
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278 <210> SEQ ID NO: 16
279 <211> LENGTH: 13
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283 <220> FEATURE:
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291 <210> SEQ ID NO: 17
292 <211> LENGTH: 853
293 <212> TYPE: DNA
294 <213> ORGANISM: Pseudotsuga menziesii
296 <400> SEQUENCE: 17
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298 ctccaaaaa aaatgaaggg gataagggat gtttggatg gcaaggguat tcaacattgg 120
299 aagatccctt gaggttttta ttgggaagat gatttgaagt ttccactaaa taattgatat 180
300 gatgataatg acaaaagataa tagttactac attgaaacca attttagtgtt aataatttct 240
301 taasaaaaata taagccoccaa tctaattttg aaatttgaaa gatataatgat tattcaacct 300
302 aaagaagataa gataagatcc aactcccttg agtgctttg gtgcacataa tataaggttt 360
303 atccatttgc gacgatgata tacaatggac gatccagaaa gticcctata aaatgaggat 420
304 ttcacgaaga aatccctatg tacggctcag gatttcgaca ttgaaagatc cattaatgag 480
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306 cggctcttgc cctttcattg ttgttttga ttctcatggc gggtctgtgg acaatacctg 600
307 cagcttgcgc catctataat tggcaccgaa ggtgctctct ctctcacaac atcaaaagcaa 660
308 aagcaaaagct tattctgtgc attgcaattt ccaagtgtaa aagtcattat attgagatgc 720
309 cctgtcccac ttcatgagaa ttccaccaag tgtcttgcgc ctttcattgt tgttggatt 780
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316 <212> TYPE: DNA
317 <213> ORGANISM: Artificial Sequence
319 <220> FEATURE:
320 <223> OTHER INFORMATION: Description of Artificial Sequence: PROMOTER
321 ELEMENT

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY DATE: 09/05/2000
PATENT APPLICATION: US/09/641,540 TIME: 11:31:03

Input Set : A:\Pto.amc
Output Set: N:\CRF3\09052000\I641540.raw

L:7 M:270 C: Current Application Number differs, Replaced Application Number
L:8 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:378 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21